

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

Claims 1.-7. (canceled).

8. (previously presented): A linear motor comprising:
a mover part including; an armature module having an I shaped magnetic iron core and
an armature winding of one kind wound on the periphery of the I shaped magnetic iron core
through an insulating material, a non-magnetic material holder on which a plurality of armature
modules are arranged in a stroke direction, and a base upper plate and a base lower plate for
attaching the non-magnetic material holder in upper and lower parts respectively, and

a stator part including; a plurality of field permanent magnets opposed to the I shaped
magnetic iron cores through magnetic spaces and field yokes for supporting the field permanent
magnets, wherein

the non-magnetic material holder has at both end parts thereof through holes
corresponding to the forms and the arranging pitches of the I shaped magnetic iron cores, and
bolts are inserted into the through holes to fix the non-magnetic material holder to the base upper
plate and the base lower plate.

9. (previously presented): A linear motor comprising:
a mover part including; an armature module having an I shaped magnetic iron core and
an armature winding of one kind wound on the periphery of the I shaped magnetic iron core
through an insulating material, and a base upper plate and a base lower plate to which a plurality
of armature modules are respectively attached in upper and lower parts thereof, and
a stator part including; a plurality of field permanent magnets opposed to the I shaped
magnetic iron cores through magnetic spaces and field yokes for supporting the field permanent
magnets, wherein

in both the end parts of the base upper plate and the base lower plate and the I shaped
magnetic iron cores, pin holes corresponding to the forms and the arranging pitches of the I
shaped magnetic iron cores are formed, and pins are inserted into the pin holes to fix the I shaped
magnetic iron cores between the base upper plate and the base lower plate.

10. (previously presented): The linear motor according to claim 9, wherein
the pin hole is a hole penetrating the I shaped magnetic iron core, and
the pin is a long penetrating pin.

11. (previously presented): The linear motor according to claim 9, further comprising:
sub-teeth for canceling a cogging due to an end effect generated in both ends of the
armatures provided in front and rear ends in the stroke direction of a group of the armature
modules, wherein

pin holes are formed on both the end parts of the base upper plate and the base lower plate and the sub-teeth, and

pins are inserted into the pin holes to fix the sub-teeth between the base upper plate and the base lower plate.

12. (previously presented): The linear motor according to claim 8, wherein a gap part of the armature winding is filled with a mold resin.

13. (currently amended): ~~An attraction force cancel type linear motor in the~~ The linear motor according to claim 8, further comprising:

~~a same~~ two stator part ~~parts~~ provided at a symmetrical position to the stator part with respect to the mover part in an opposite side to the stator part by sandwiching the mover part in therebetween.

14. (currently amended): ~~The attraction force cancel type~~ The linear motor according to ~~claim 13~~ claim 8, wherein

a guide part of a linear guide is fixed to the lower side of the base lower plate.

15. (previously presented): The linear motor according to claim 9, wherein a gap part of the armature winding is filled with a mold resin.

16. (currently amended): ~~An attraction force cancel type linear motor in the~~ The linear motor according to claim 9, further comprising:

~~a same~~ two stator part parts provided at a symmetrical position to the stator part with respect to the mover part in an opposite side to the stator part by sandwiching the mover part in therebetween.

17. (currently amended): ~~The attraction force cancel type~~ The linear motor according to ~~claim 16~~ claim 9, wherein

a guide part of a linear guide is fixed to the lower side of the base lower plate.